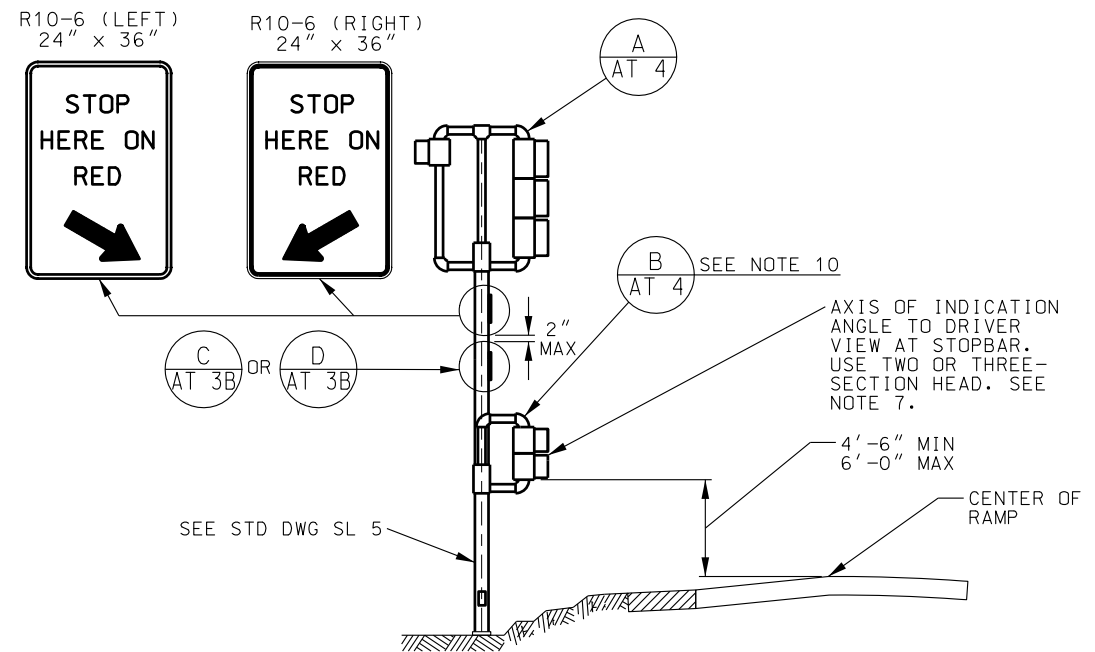


#### NOTES:

1. SIGNAL POLE, MAST ARM AND LUMINAIRE EXTENSION ARE STATE FURNISHED ITEMS.
2. CENTER ALL SIGNAL HEADS IN MIDDLE OF LANES.
3. SEE STD DWG SL 2 FOR MAST ARM SIGNAL HEAD MOUNTING.
4. MOUNT ALL SIGNAL HEADS AT THE SAME ELEVATION FROM THE ROADWAY CROWN.
5. USE THE CURRENT EDITION OF AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS FOR DESIGN OF ROADWAY ELEMENTS.
6. PLACE RAMP METER MAST ARM ASSEMBLY A MINIMUM OF 1.2 TIMES THE AASHTO CLEAR ZONE DISTANCE AWAY FROM THE TRAVELED WAY, OR SHIELD AS PER THE CURRENT EDITION OF THE AASHTO ROADSIDE DESIGN GUIDE.
7. INSTALL UPPER THREE-SECTION (12" RED, YELLOW, AND GREEN LEDS) AND LOWER TWO OR THREE-SECTION HEADS (8" LEDS) AS SHOWN. USE A TWO-SECTION LOWER HEAD FOR "1 VEHICLE PER GREEN EACH LANE" OUTPUT AND A THREE-SECTION LOWER HEAD FOR "2 VEHICLES PER GREEN EACH LANE" OUTPUT.
8. USE FOUR CONDUCTORS FOR EACH SIGNAL HEAD.
9. USE TYPE I SIGNAL HEAD ON RAMP METER MAST ARM (RED, YELLOW, AND GREEN).

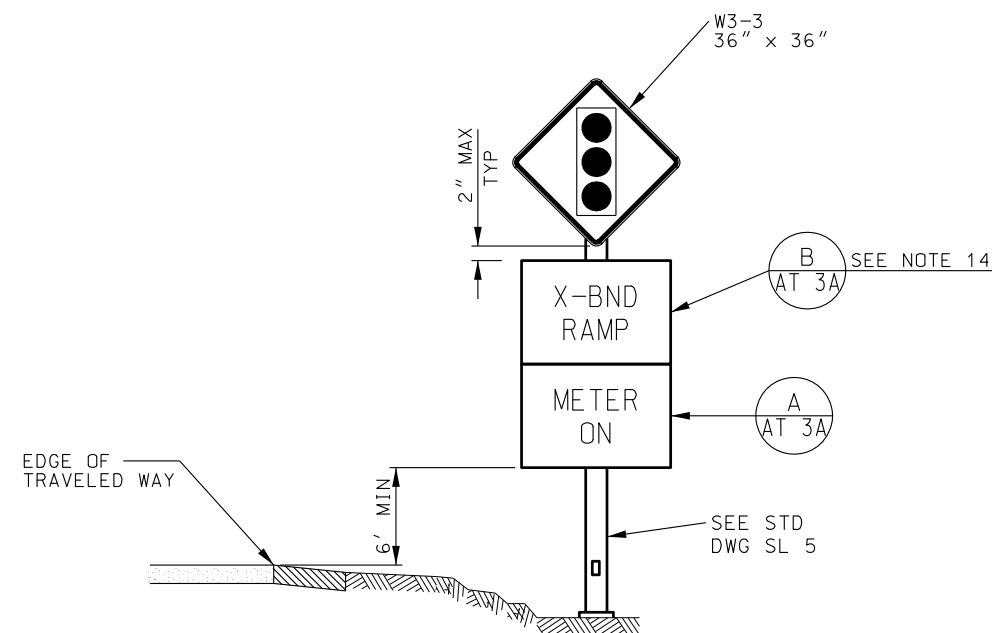
**A** RAMP METER MAST ARM SIGNAL ASSEMBLY  
AT 2 TWO AND THREE LANE CONFIGURATIONS



#### NOTES:

10. USE LOWER SIGNAL HEAD ONLY ON SINGLE LANE RAMPS.
11. VERIFY NUMBER OF VEHICLES PER GREEN WITH TRAFFIC MANAGEMENT DIVISION.
12. PLACE POLE ON BREAKAWAY BASE. LOCATE PER MUTCD.

**B** RAMP METER POLE MOUNT SIGNAL ASSEMBLY  
AT 2 WITH ENFORCEMENT INDICATION



#### NOTES:

13. PLACE POLE ON BREAKAWAY BASE. LOCATE PER MUTCD.
14. REPLACE "X" WITH THE APPLICABLE RAMP DIRECTION.

**C** RAMP METER ADVANCED WARNING  
AT 2

REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL  
SALESMAN  
JAN 01 2008  
DATE  
CHAIRMAN STANDARDS COMMITTEE  
APPROVED  
DEPUTY DIRECTOR

RAMP METER  
DETAILS

STD DWG  
AT 2

STANDARD DRAWING TITLE

REMARKS

NO. DATE APPR.